Malawi

Epidemiological Fact Sheet

on HIV/AIDS and sexually transmitted infections



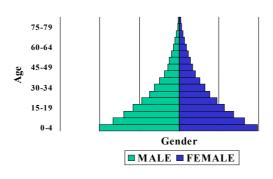
2000 Update





Country Information

Population pyramid, 1999



Indicators	Year	Estimate	Source
Total Population (thousands)	1999	10,640	UNPOP
Population Aged 15-49 (thousands)	1999	4,694	UNPOP
Annual Population Growth	1990-1998	1.3	UNPOP
% of Population Urbanized	1998	14	UNPOP
Average Annual Growth Rate of Urban Population	1990-1998	2.9	UNPOP
GNP Per Capita (US\$)	1997	210	World Bank
GNP Per Capita Average Annual Growth Rate	1996-1997	2.5	World Bank
Human Development Index Rank (HDI)	1999	159	UNDP
% Population Economic Active			
Unemployment Rate			
Total Adult Literacy Rate	1995	56	UNESCO
Adult Male Literacy Rate	1995	72	UNESCO
Adult Female Literacy Rate	1995	42	UNESCO
Male Secondary School Enrollment Ratio	1997	22.0	UNESCO
Female Secondary School Enrollment Ratio	1997	12.2	UNESCO
Crude Birth Rate (births per 1,000 pop.)	1999	47	UNPOP
Crude Death Rate (deaths per 1,000 pop.)	1999	23	UNPOP
Maternal Mortality Rate (per 100,000 live births)	1990	560	WHO
Life Expectancy at Birth	1998	39	UNPOP
Total Fertility Rate	1998	6.7	UNPOP
Infant Mortality Rate (per 1,000 live births)	1999	135	UNICEF/UNPOP

UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance

Global Surveillance of HIV/AIDS and sexually transmitted infections (STIs) is a joint effort of WHO and UNAIDS. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, initiated in November 1996, guides respective activities. The primary objective of the working group is to strengthen national, regional and global structures and networks for improved monitoring and surveillance of HIV/AIDS and STIs. For this purpose, the working group collaborates closely with national AIDS programmes and a number of national and international experts and institutions. The goal of this collaboration is to compile the best information available and to improve the quality of data needed for informed decisionmaking and planning at national, regional and global levels. The Epidemiological Fact Sheets are one of the products of this close and fruitful collaboration across the globe.

The working group and its partners have established a framework standardizing the collection of data deemed important for a thorough understanding of the current status and trends of the epidemic, as well as patterns of risk and vulnerability in the population. Within this framework, the Fact Sheets collate the most recent country-specific data on HIV/AIDS prevalence and incidence, together with information on behaviours (e.g. casual sex and condom use) which can spur or stem the transmission of HIV.

Not unexpectedly, information on all of the agreedupon indicators was not available for many countries in 1999. However, these updated Fact Sheets do contain a wealth of information which allows identification of strengths in currently existing programmes and comparisons between countries and regions. The Fact Sheets may also be instrumental in identifying potential partners when planning and implementing improved surveillance systems.

The fact sheets can be only as good as information made available to the UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance. Therefore, the working group would like to encourage all programme managers as well as national and international experts to communicate additional information to the working group whenever such information becomes available. The working group also welcomes any suggestions for additional indicators or information proven to be useful in national or international decision-making and planning.

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Estimated number of people living with HIV/AIDS

In 1999 and during the first quarter of 2000, UNAIDS and WHO worked closely with national governments and research institutions to recalculate current estimates on people living with HIV/AIDS. These calculations are based on the previously published estimates for 1997 and recent trends in HIV/AIDS surveillance in various populations. A methodology developed in collaboration with an international group of experts was used to calculate the new estimates on prevalence and incidence of HIV and AIDS deaths, as well as the number of children infected through mother-to-child transmission of HIV. Different approaches were used to estimate HIV prevalence in countries with low-level, concentrated or generalized epidemics. The current estimates do not claim to be an exact count of infections. Rather, they use a methodology that has thus far proved accurate in producing estimates that give a good indication of the magnitude of the epidemic in individual countries. However, these estimates are constantly being revised as countries improve their surveillance systems and collect more information.

Adults in this report are defined as women and men aged 15 to 49. This age range covers people in their most sexually active years. While the risk of HIV infection obviously continues beyond the age of 50, the vast majority of those who engage in substantial risk behaviours are likely to be infected by this age. The 15 to 49 age range was used as the denominator in calculating adult HIV prevalence.

□ Estimated number of adults and children living with HIV/AIDS, end of 1999

These estimates include all people with HIV infection, whether or not they have developed symptoms of AIDS, alive at the end of 1999

Adults and children	800000		
Adults (15-49)	760000	Adult rate (%)	15.96
Women (15-49)	420000		
Children (0-14)	40000		

□ Estimated number of deaths due to AIDS

Estimated number of adults and children who died of AIDS during 1999:

Deaths in 1999 70000

□ Estimated number of orphans

Estimated number of children who have lost their mother or both parents to AIDS (while they were under the age of 15) since the beginning of the epidemic:

Cumulative orphans 390000

Estimated number of children who have lost their mother or both parents to AIDS and who were alive and under age 15 at the end of 1999:

Current living orphans 275539

Assessment of epidemiological situation – Malawi

HIV seroprevalence information among antenatal clinic attendees is available since the mid-1980s from Malawi. In Malawi, Lilongwe, Blantyre and Mzuzu are considered major urban areas. From 1985 to 1993, HIV seroprevalence among antenatal women increased from 2 percent to 30 percent. In 1998, 26 percent of antenatal clinic attendees tested HIV positive. In 1997, 17 percent of the women less than 20 years of age were HIV positive. Peak HIV prevalence of 32 percent was seen among women aged 25-29 years of age.

Outside of major urban areas, HIV prevalence among antenatal women tested in increased from 6 percent in 1992 to 18 percent in 1998. The range of HIV prevalence among antenatal women tested in 14 sites¹ in 1998 was from 6 percent to 25 percent. In 1998, combined age data was available from all 19 sites including the major sites and outside of the major urban areas. Fourteen percent of the women less than 20 years of age were HIV positive and peak prevalence of 28 percent was reported among women 25-29 years of age.

In 1986, 56 percent of sex workers tested in Blantyre were HIV positive. In 1994, 70 percent of sex workers tested in Lilongwe were HIV positive.

Over 50 percent of STD clinic patients tested in the major urban areas between 1989 and 1996 were HIV positive. In 1995, 46 percent of STD clinic patients tested at 7 sites outside of the major urban areas were HIV positive.

¹ Two of the reporting sites had sample sizes less than 100.

4 - Malawi

HIV sentinel surveillance

This section contains information about HIV prevalence in different populations. The data reported in the tables below are mainly based on the HIV data base maintained by the United States Bureau of the Census where data from different sources, including national reports, scientific publications and international conferences is compiled. To provide for a simple overview of the current situation and trends over time, summary data are given by population group, geographical area (Major Urban Areas versus Outside Major Urban Areas), and year of survey. Studies conducted in the same year are aggregated and the median prevalence rates (in percentages) are given for each of the categories. The maximum and minimum prevalence rates observed, as well as the total number of surveys/sentinel sites, are provided with the median, to give an overview of the diversity of HIV-prevalence results in a given population within the country. Data by sentinel site or specific study on which the medians were calculated are printed at the end of this fact sheet.

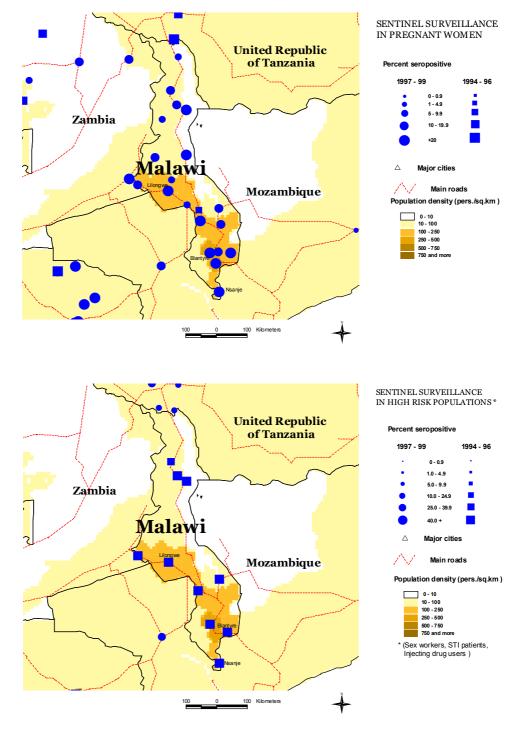
The differentiation between the two geographical areas Major Urban Areas and Outside Major Urban Areas is not based on strict criteria, such as the number of inhabitants. For most countries, Major Urban Areas were considered to be the capital city and – where applicable – other metropolitan areas with similar socio-economic patterns. The term Outside Major Urban Areas considers that most sentinel sites are not located in strictly rural areas, even if they are located in somewhat rural districts.

☐ HIV prevalence in selected populations in percent (for blood donors: 1/100 000)

Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
Pregnant women	Major Urban Areas	N-sites		1	1	3		3	2	2	1	1	3	3	3	3	3
		Minimum		2	4.2	3.1		16.4	17.9	17.9	27.1	30	16.5	18.5	21.4	17	18.5
		Median		2	4.2	8.2		16.9	19.9	21.95	27.1	30	21.2	22.5	27	25	26
		Maximum		2	4.2	8.2		18.6	21.9	26	27.1	30	30.1	32.8	34	30.8	30.4
regnant women	Outside Major Urban Areas	N-sites									10	10	16	16	16	15	14
		Minimum									2	2.8	3	4.7	2.3	5.4	6.4
		Median									5.5	10.75	15.8	12.6	15.8	17.7	18.2
		Maximum									14.4	28.7	28	28.8	28.4	26.1	25.2
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
ex workers	Major Urban Areas	N-sites			1								1				
	-	Minimum			55.9								70				
		Median			55.9								70				
		Maximum			55.9								70				
ex workers	Outside Major Urban Areas	N-sites															
on workers	Catolae Major C.Dan 7 a cao	Minimum															
		Median															
		Maximum															
Group	Area	Waximum	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
jecting drug users	Major Urban Areas	N-sites	1304	1303	1300	1907	1300	1303	1990	1551	1992	1995	1554	1995	1550	1997	1990 1
jecting drug users	Major Orban Areas	Minimum															
		Median															
		Maximum															
Injecting drug users	Outside Major Urban Areas	N-sites															
		Minimum															
		Median															
		Maximum															
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
TI patients																	
	Major Urban Areas	N-sites						1				1		3	1		
	Major Urban Areas	N-sites Minimum						62.4				52.9		57.2	1 54.8		
	Major Urban Areas																
	Major Urban Areas	Minimum						62.4				52.9		57.2	54.8		
ΓI patients	Major Urban Areas Outside Major Urban Areas	Minimum Median						62.4 62.4				52.9 52.9		57.2 60.8	54.8 54.8		
TI patients	·	Minimum Median Maximum						62.4 62.4				52.9 52.9		57.2 60.8 63.7	54.8 54.8		
TI patients	·	Minimum Median Maximum N-sites						62.4 62.4				52.9 52.9		57.2 60.8 63.7 7	54.8 54.8		
「I patients	·	Minimum Median Maximum N-sites Minimum						62.4 62.4				52.9 52.9		57.2 60.8 63.7 7 36.6	54.8 54.8		
	·	Minimum Median Maximum N-sites Minimum Median	1984	1985	1986	1987	1988	62.4 62.4	1990	1991	1992	52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5	54.8 54.8	1997	1998 1
iroup	Outside Major Urban Areas	Minimum Median Maximum N-sites Minimum Median	1984	1985	1986	1987	1988	62.4 62.4 62.4	1990	1991	1992	52.9 52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8	1997	1998 1
Group	Outside Major Urban Areas Area	Minimum Median Maximum N-sites Minimum Median Maximum	1984	1985	1986	1987	1988	62.4 62.4 62.4	1990	1991	1992	52.9 52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8	1997	1998 1
Group	Outside Major Urban Areas Area	Minimum Median Maximum N-sites Minimum Median Maximum N-sites	1984	1985	1986	1987	1988	62.4 62.4 62.4	1990	1991	1992	52.9 52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8	1997	1998 1
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roup ood Donors	Outside Major Urban Areas Area National	Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Median Maximum	1984	1985	1986	1987	1988	62.4 62.4 62.4	1990	1991	1992	52.9 52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8	1997	1998 1
Group ood Donors	Outside Major Urban Areas Area	Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Median Maximum N-sites	1984	1985	1986	1987	1988	62.4 62.4 62.4	1990	1991	1992	52.9 52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8	1997	1998 1
TI patients Sroup lood Donors	Outside Major Urban Areas Area National	Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Median Meximum N-sites Minimum	1984	1985	1986	1987	1988	62.4 62.4 62.4	1990	1991	1992	52.9 52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8	1997	1998 1
Group Groud Donors	Outside Major Urban Areas Area National	Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Median Median Median Median Median	1984	1985	1986	1987	1988	62.4 62.4 62.4	1990	1991	1992	52.9 52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8	1997	1998 1
ood Donors	Outside Major Urban Areas Area National Major Urban Areas	Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Median Meximum N-sites Minimum						62.4 62.4 62.4				52.9 52.9 52.9 52.9		57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8		
ood Donors ood Donors ood Donors	Outside Major Urban Areas Area National Major Urban Areas	Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Median Maximum Median Maximum N-sites Minimum Median Maximum Median Maximum	1984	1985	1986	1987	1988	62.4 62.4 62.4	1990	1991	1992	52.9 52.9 52.9	1994	57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8	1997	1998 1
ood Donors ood Donors roup en having sex with	Outside Major Urban Areas Area National Major Urban Areas	Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Maximum N-sites Minimum Median Maximum Median Maximum Median Maximum						62.4 62.4 62.4				52.9 52.9 52.9 52.9		57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8		
ood Donors	Outside Major Urban Areas Area National Major Urban Areas	Minimum Median Maximum N-sites Minimum Median Maximum N-sites Minimum Median Maximum Median Maximum N-sites Minimum Median Maximum Median Maximum						62.4 62.4 62.4				52.9 52.9 52.9 52.9		57.2 60.8 63.7 7 36.6 45.5 55	54.8 54.8 54.8		

Maps of HIV sentinel sites

Mapping the geographical distribution of HIV sentinel sites for different population groups may assist interpreting both the national coverage of the HIV surveillance system and explaining differences in levels and trends of prevalence. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, in collaboration with the UNICEF/WHO HealthMap Programme, has produced maps showing the location and HIV prevalence of HIV sentinel sites in relation to population density, major urban areas and communication routes. Maps illustrate separately the most recent results from HIV sentinel surveillance in pregnant women and in sub-populations at higher risk of HIV infection.



The boundaries and names shown and the designations used on these maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

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Reported AIDS cases

AIDS cases by year of reporting

1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total	Unkn
0	0	0	0	0	0	17	127	858	3034	4966	5859	7439	4655	4916	4732	5209	5406	3705			50975	52

Date of last report: 21/May/98

Following WHO and UNAIDS recommendations, AIDS case reporting is carried out in most countries. Data from individual AIDS cases is aggregated at the national level and sent to WHO. However, case reports come from surveillance systems of varying quality. Reporting rates vary substantially from country to country and low reporting rates are common in developing countries due to weaknesses in the health care and epidemiological systems. In addition, countries use different AIDS case definitions. A main disadvantage of AIDS case reporting is that it only provides information on transmission patterns and levels of infection approximately 5-10 years in the past, limiting its usefulness for monitoring recent HIV infections.

Despite these caveats, AIDS case reporting remains an important advocacy tool and is useful in estimating the burden of HIV-related morbidity as well as for short-term planning of health care services. AIDS case reports also provide information on the demographic and geographic characteristics of the affected population and on the relative importance of the various exposure risks. In some situations, AIDS reports can be used to estimate earlier HIV infection patterns using back-calculation. AIDS case reports and AIDS deaths have been dramatically reduced in industrialized countries with the introduction of HAART (Highly Active Anti-Retroviral Therapy).

AIDS cases by mode of transmission

Hetero: Heterosexual contacts.

Homo/Bi: Homosexual contacts between men.

IDU: Injecting drug use. This transmission category also includes cases in which other high-risk behaviours were reported, in addition to injection of drugs.

Blood: Blood and blood products.

Perinatal: Vertical transmission during pregnancy, birth or breastfeeding. NS: Not specified/unknown.

Sex	Trans. Group	<96	1996	1997	1998	1999	Unkn	Total	%
All	Total	41812	5370	3705				9075	100.0
	Hetero		4804	3253				8057	88.8
	Homo/Bi		0	0				0	0.0
	IDU		0	0				0	0.0
	Blood		99	52				151	1.7
	Perinatal		566	400				966	10.6
	Other Known		0	0				0	0.0
	Unknown		0	0				0	0.0
Male	Total		2614	1957				4571	100.0
	Hetero		2318	1741				4059	88.8
	Homo/Bi		0	0				0	0.0
	IDU		0	0				0	0.0
	Blood		40	28				68	1.5
	Perinatal		296	216				512	11.2
	Other Known		0	0				0	0.0
	Unknown		0	0				0	0.0
Female	Total		2756	1696				4452	100.0
	Hetero		2486	1512				3998	89.8
	IDU		0	0				0	0.0
	Blood		59	24				83	1.9
	Perinatal		270	184				454	10.2
	Other Known		0	0				0	0.0
	Unknown		0	0				0	0.0
NS	Total		36	52				88	100.0
	Hetero								
	IDU								
	Blood								
	Perinatal								
	Other Known								

Aids cases by age and sex

1996

5406

483

94

52

145

1997

3705

341

68

32

67

1999 Unkn.

Total

9111 100.0

824

162

84

212

%

9.0

18

0.9

2.3

Age

All

0-4

5-9

10-14

15-19

		20-24	637	407	1044	11.5
,		25-29	956	616	1572	17.3
		30-34	1187	834	2021	22.2
t		35-39	755	572	1327	14.6
٦ ٦		40-44	486	321	807	8.9
•		45-49	309	223	532	5.8
9		50-54	162	123	285	3.1
'n		55-59	86	61	147	1.6
		60+	54	40	94	1.0
ì		NS	0	0	0	0.0
•	Male	All	2614	1957	4571	100.0
		0-4	252	179	431	9.4
		5-9	44	37	81	1.8
		10-14	18	18	36	8.0
		15-19	20	10	30	0.7
		20-24	150	120	270	5.9
		25-29	376	277	653	14.3
		30-34	616	464	1080	23.6
		35-39	436	328	764	16.7
		40-44	300	210	510	11.2
		45-49	196	158	354	7.7
		50-54	102	87	189	4.1
		55-59	61	48	109	2.4
		60+	43	29	72	1.6
		NS	0	0	0	0.0
	Female	All	2756	1696	4452	100.0
		0-4	223	154	377	8.5
		5-9	47	30	77	1.7
		10-14	33	14	47	1.1
		15-19	125	55	180	4.0
		20-24	486	284	770	17.3
		25-29	580	332	912	20.5
		30-34	568	359	927	20.8
		35-39	313	234	547	12.3
		40-44	178	106	284	6.4
		45-49	111	71	182	4.1
		50-54	56	35	91	2.0
		55-59	25	11	36	8.0
		60+	11	11	22	0.5
		NS	0	0	0	0.0
	NS	All	36	52	88	100.0
		0-4	8	8	16	18.2
		5-9	3	1	4	4.5
		10-14	1	0	1	1.1
		15-19	0	2	2	2.3
		20-24	1	3	4	4.5
		25-29	0	7	7	8.0
		30-34	3	11	14	15.9
		35-39	6	10	16	18.2
		40-44	8	5	13	14.8
		45-49	2	2	4	4.5
		50-54	4	1	5	5.7
		55-59	0	2	2	2.3
		00.	•	•	•	0.0

0

0

NS

Unknown

0.0

0.0

Curable Sexually Transmitted Infections (STIs)

The predominant mode of transmission of both HIV and other STIs is sexual intercourse. Measures for preventing sexual transmission of HIV and STI are the same, as are the target audiences for interventions. In addition, strong evidence supports several biological mechanisms through which STI facilitate HIV transmission by increasing both HIV infectiousness and HIV susceptibility. Significant also is the observation of a sharp decline in the concentration of HIV in the genital secretions when the infection is treated. Monitoring trends in STI can provide valuable information on the sexual transmission of HIV as well as the impact of behavioural interventions, such as promotion of condom use.

Clinical services offering STI care are an important access point for people at high risk for both AIDS and STI, not only for diagnosis and treatment but also for information and education. Therefore, control and prevention of STI have been recognized as a major strategy in the prevention of HIV

	nice and pre	valence 0	f curable STIs					
			idence				valence	
STI's	Year	Male	Female	All	Year	Male	Female	F
Chlamydia trach.								
Gonorrhoea								
Syphilis Trichomonas								
Comments:								
Source:								
- ATIL								
□ STI Incidence, m	<u>en</u>							
Prevention Indicator 9:	Proportion of	f men agor	1 15-40 years v	vho reported o	inisodes of	rathritic in t	he last 12 mg	nthe
i revention mulcator 9.	ι τοροιτίοι το	n men aget	u 10-40 yeals l	who reported t	piaouca oi u	i Cumus III (uiciast IZ III(Jiiu 15.
Year		Area		Age		Rate	N=	
Prevention Indicator 8: screened with positive	•		women aged 1	5-24 years att	tending anter	natal clinics	whose blood	d has be
	•		women aged 1	I5-24 years att	-	natal clinics	s whose blood	i has b
screened with positive	•	syphilis.	women aged 1	·	-			i has b
screened with positive	•	syphilis.	women aged 1	·	-			i has b
screened with positive	•	syphilis.	women aged 1	·	-			l has be
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Screened with positive Year Comments:	serology for	syphilis. Area	women aged 1	·	-			i has bo
Year Comments: Sources:	serology for	Area		Age		Rate	N=	
Year Comments: Sources: STI Case manage Prevention Indicator 7:	serology for ement (cour	Area nselled) of people pr		Age		Rate	N=	
Comments: Sources: STI Case manage Prevention Indicator 7: condoms and on partners	serology for ement (cour	Area nselled) of people production.		Age STI or for STI o	care in health	Rate	N= who received I	
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Comments: Sources: STI Case manage Prevention Indicator 7: condoms and on partner Year	serology for ement (cour	Area nselled) of people production.		Age STI or for STI o	care in health	Rate	N= who received I	
Screened with positive Year Comments: Sources: STI Case manage Prevention Indicator 7: condoms and on partner Year Comments:	serology for ement (cour	Area nselled) of people production.		Age STI or for STI o	care in health	Rate	N= who received I	
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Screened with positive Year Comments: Sources: STI Case manage Prevention Indicator 7: condoms and on partner Year Comments: Sources:	ement (cour Proportion of er notification	Area nselled) of people produced in the control of		Age STI or for STI o	care in health	Rate	N= who received I	
Year Comments: Sources: STI Case manage Prevention Indicator 7: condoms and on partner Year Comments: Sources: STI Case manage	ement (cour Proportion o er notification	Area nselled) of people produced in the control of	resenting with S	Age STI or for STI o	care in health	Rate n facilities w	N= vho received l	basic a
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Comments Sources:

8 - Malawi

Health service indicators

HIV prevention strategies depend on the twin efforts of care and support for those living with HIV or AIDS, and targeted prevention for all people at risk or vulnerable to the infection. These efforts may range from reaching out to vulnerable communities through large-scale educational campaigns or interpersonal communication; provision of treatment for STIs; distribution of condoms and needles; creating and enabling environment to reduce risky behaviour; providing access to voluntary testing and counselling; home or institutional care for persons with symptomatic HIV infection; and preventing perinatal transmission and transmission through infected needles or blood in health care settings. It is difficult to capture such a large range of activities with one or just a few indicators. However, a set of well-established health care indicators – such as the percentage of a population with access to health care services; the percentage of women covered by antenatal care; or the percentage of immunized children – may help to identify general strengths and weaknesses of health systems. Specific indicators, such as access to testing and blood screening for HIV, help to measure the capacity of health services to respond to HIV/AIDS – related issues.

□ Access to health care

Indicators	Year	Estimate	Source
% of population with access to health services – total:			
% of population with access to health services – urban:			
% of population with access to health services – rural:			
Contraceptive prevalence rate (%):	1990-1999	19	UNICEF/UNPOP
% of births attended by trained health personnel:	1990-1999	47	UNICEF
% of 1-yr-old children fully immunized – DPT:	1995-1998	68	UNICEF
6 of 1-yr-old children fully immunized – Polio:	1995-1998	68	UNICEF
% of 1-yr-old children fully immunized – Measles:	1995-1998	65	UNICEF
Proportion of blood donations tested:			
% of ANC clinics where HIV testing is available:			
HIV/AIDS Hospital Occupancy Rate (Days):			

Male and female condoms are the only technology available that can prevent sexual transmission of HIV and other STIs. Persons exposing themselves to the risk of sexual transmission of HIV should have consistent access to high quality condoms. AIDS Programmes implement activities to increase both availability of and access to condoms. The two condom availability indicators below are intended to highlight areas of strength and weakness at the beginning and end of the distribution system so that programmatic resources can be directed appropriately to problem areas.

Condom availability (central level) Prevention Indicator 2: Availability of condoms in the country over the last 12 months (central level). Year Area N Rate Comments: Sources: Condom availability (peripheral level) Prevention Indicator 3: Proportion of people who can acquire a condom (peripheral level). Year Area N Rate Comments:

Sources

Knowledge and behaviour

In most countries the HIV epidemic is driven by behaviours (e.g.: multiple sexual partners, intravenous drug use) that expose individuals to the risk of infection. Information on knowledge and on the level and intensity of risk behaviour related to HIV/AIDS is essential in identifying populations most at risk for HIV infection and in better understanding the dynamics of the epidemic. It is also critical information in assessing changes over time as a result of prevention efforts. One of the main goals of the 2nd generation HIV surveillance systems is the promotion of regular behavioural surveys in order to monitor trends in behaviours and target interventions.

□ <u>Know</u>	rleage of HIV- rel	ated preventive pra	ctices			
Prevention	Indicator 1: Propo	ortion of people citing	at least two acceptable	ways of pro	otection from HI\	/ infection.
	Year	Area	Age Group	Male	Female	All
Comments:						
Sources:						
Repo	rted non-regular	sexual partnerships	<u> </u>			
Prevention 12 months.		ortion of sexually acti	ve people having at leas	st one sex p	artner other thar	n a regular partner in the las
	Year	Area	Age Group	Male	Female	All
Comments: Sources:						
		e in risk sex (gen po	p) ting the use of a condo	n during the	most recent inte	ercourse of risk.
	Year	Area	Age Group	Male	Female	All
Comments: Sources:						

Knowledge and behaviour

☐ Ever use of condom

Percentage of people who ever used a condom.

Year	Area	Age Group	Male	Female	All	
1992	All	15-19		1.0		
1992	All	20-24		2.3		
1992	All	25-29		3.8		
1992	All	30-34		4.9		
1992	All	35-39		5.0		
1992	All	40-44		3.3		
1992	All	45-49		1.0		
1992	All	Total		3.0		

Comments:

Sources:

Demographic and Health Survey

☐ Median age at first sexual experience

Median age of people at which they first had sexual intercourse.

Year	Area	Age Group	Male	Female	All	
1992	All	20-24		17.0		
1992	All	45-49		16.0		

Comments:

Sources:

DHS/1992

DHS/1992

☐ Adolescent pregnancy

Percentage of teenagers 15-19 who are mothers or pregnant with their first child

Year	Area	Age Group	N	Rate	
1992	All	15	280	7.2	
1992	All	16	287	14.6	
1992	All	17	284	26.9	
1992	All	18	305	45.1	
1992	All	19	264	51.3	

Comments:

Sources:

Sources

Data presented in this Epidemiological Fact Sheet come from several different sources, including global, regional and country reports, published documents and articles, posters and presentations at international conferences, and estimates produced by UNAIDS, WHO and other United Nations Agencies. This section contains a list of the more relevant sources used for the preparation of the Fact Sheet. Where available, it also lists selected national Web sites where additional information on HIV/AIDS and STI are presented and regularly updated. However, UNAIDS and WHO do not warrant that the information in these sites is complete and correct and shall not be liable whatsoever for any damages incurred as a result of their use.

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Websites: www.aids.africa.com

12 - Malawi

Annex: HIV Surveillance data by site

Pregnant women	Major Urban Areas	Blantyre Lilongwe		2	4.2	8.2		18.6	21.9	26	27.1	30	30.1	32.8	34	30.8	30.4	
		Lilonawo																
		Lilorigwe				8.2		16.4	17.9	17.9			16.5	22.5	27	25	26	
		Mzuzu				3.1		16.9					21.2	18.5	21.4	17	18.5	
Pregnant women	Outside Major Urban Areas	Chiradzulu									7.7	20.5	18	18.4	16.7	23.4	14.9	
		Dedza									4.8	6.9				5.4		
		Dowa									2.4	2.8	3	4.7	4.7	8.4	6.4	
		Karonga									2	12	8.3	7.5	2.3		6.6	
		Kasina													7.1			
		Kasungu									3.3	4	6.9	9.4	11.3	6.7	10.3	
		Machinga									2.1	9.5	16	6.8	15.9	12.7	14.9	
		Mangochi											16.5	18.4	16.8	20	19.4	
		Mchinji									14.4	18.6	13	13.2	15.6	17.7	17	
		Mulanje									13.3	28.7	28	28.8	28.4	26.1	25.2	
		Mzimba									11.6	7.8	7	7.3	5.9	8.2		
		Nkhata Bay		l	l								20.5	22	16	20.5	25	
		Nkhotakota											15.5	18	16.8	16.3	22.8	
		Nsanje											21	9.6	17.2	21.3	23.6	
		Ntcheu		 	 								18	16.8	24	22.5	20.8	
		Rumphi											14.9	16.4	12.8	18.5	12.5	
		Thyolo									6.2	16.5	19	12	10.7	13.9	20.9	
Group	Area	,	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers	Major Urban Areas	Blantyre	1504	1303	55.9	1507	1300	1303	1550	1551	1552	1333	1334	1555	1550	1557	1550	1000
	Wajor Orban Arcas	Lilongwe											70					
Sex workers	Outside Major Urban Areas	Liiongiio																
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Injecting drug users	Major Urban Areas		1904	1900	1900	1907	1900	1909	1990	1991	1992	1995	1994	1995	1990	1997	1990	1999
Injecting drug users	Outside Major Urban Areas																	
, , ,	•		4004	4005	4000	4007	1000	4000	4000	4004	1000	1000	1001	4005	4000	4007	4000	4000
Group	Area	Lilonguro	1984	1985	1986	1987	1988	1989 62.4	1990	1991	1992	1993	1994	1995 60.8	1996	1997	1998	1999
STI patients	Major Urban Areas	Lilongwe						02.4						00.0	54.8			
		Lilongwe (Males)													54.6			
		Blantyre												63.7				
		Blantyre										52.9						
		(Males)																
		Mzuzu												57.2				
STI Patients	Outside Major Urban Areas	Mangochi												55				
		Mchinji												53.8				
		Mulanje												45.5				
		Nkhata Bay												43.6				
		Nsanje												47				
		Ntcheu												40.8				
		Rumphi												36.6				
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	National																	
Blood Donors																		
Blood Donors Blood Donors	Major Urban Areas																	